

In the Claims:

Please amend the claims in accordance with the following listing of claims:

1-42 Cancelled

43. (Previously Presented) A communications system comprising a first station adapted to communicate with a second station over a wireless channel, data being carried over the wireless channel in superframes, each superframe comprising a plurality of frames and each frame comprising a plurality of timeslots;

the system having:

a first mode of operation in which a full rate data channel for circuit switched communications is defined by an allocation to said full rate data channel of corresponding time slots in each frame;

a second mode of operation in which two half rate data channels for circuit switched communications are defined by an allocation to each of said two half rate data channels of an equal number of corresponding time slots of frames in each superframe;

a third mode of operation in which four quarter rate date channels for circuit switched communications are defined by an allocation to each of said four quarter rate data channels of equal number of corresponding time slots in each superframe

a fourth mode of operation in which a full rate data channel for packet switched communication is defined by an allocation to said full rate data channel of corresponding time slots in each frame; and

a fifth mode of operation in which two half rate data channels for packet switched communications are defined by an allocation to each of said two half rate data channels of an equal number of corresponding time slots of frames in each superframe.

44. (Original) A communication system as claimed in claim 43, wherein equal numbers of timeslots in each frame are allocated to the data channel for circuit switched communications and the data channel for packet switched communications.

45. (Previously Presented) A communication system as claimed in claim 43, wherein half the number of slots are allocated to the data channel for packet switched communications and a quarter are allocated to the data channel for circuit switched communications.

46. (Previously Presented) A communication system as claimed in claim 43, wherein a quarter of the number of slots are allocated to data channel for packet communications and a quarter are allocated to the data channel for circuit switched communication.

47. (Original) A communication system as claimed in claim 43, wherein the data channel for circuit switched communication is a half rate data channel.

48. (Original) A communication system as claimed in claim 43, wherein the data channel for circuit switched communications is a quarter rate channel.

49. (Original) A communication system as claimed in claim 43, wherein the data channel for packet switched communications is a half rate data channel.

50. (Original) A communication system as claimed in claim 43, wherein control data for control of the data channel for packet switched communications is carried by the data channel for circuit switched communications.

51. (Original) A communication system as claimed in claim 50, wherein the control data is for control of transmission power and/or handover of the channel, link adaptation.

52. (Original) A communication system as claimed in claim 50, wherein the control data comprises a fast associated control channel and/or a slow associated control channel.

53. (Original) A communication system as claimed in claim 43, wherein the data channel for circuit switched communications is a conversational channel.

54. (Original) A communication system as claimed in claim 43, wherein the data channel for circuit switched communications is a background channel.

55. (Original) A communication system as claimed in claim 43, wherein the data channel for packet switched communications is allocated time slots during periods when the data channel for circuit switched communications is relatively inactive.

56. (Original) A communication system as claimed in claim 56, wherein the data channel for packet switched communications is allocated time slots during lulls in speech data being carried by means of the data channel for circuit switched communications.

57. (Original) A communication system as claimed in claim 43, wherein the wireless channel comprises a circuit switched air-interface data being carried over said circuit switch air-interface via circuit switched data and packet data.

58. (Original) A communication system as claimed in claim 57, wherein said circuit switched air interface is connectable to a packet switched core network.

59. (Previously Presented) A communication system as claimed in claim 43, wherein the circuit switched channel is adapted to operate via a circuit switched core network of the communication system.

60. (Previously Presented) A communication system as claimed in claim 43, wherein the packet switched channel is adapted to operate via a packet switched core network of the communication system.

61. (Previously Presented) A communication system as claimed in claim 43, wherein the circuit switched channel is adapted to operate via a packet switched core network and a circuit switch core network of the communication system.

62. (Currently Amended) A communication system comprising a first station adapted to communicate with a second station over a wireless channel data being carried over the wireless channel in superframes, each superframe comprising a plurality of frames and each frame comprising a plurality of timeslots;

the system having a mode of operation in which a data channel for circuit switched communications is defined by the allocation to that channel of corresponding time slots of some of the frames of each superframe, and a data channel for packet switched communications is defined by the allocation to that channel of corresponding time slots of some of the frames of each superframe,

the data channel for circuit switched communications being a half rate data channel and the data channel for packet switched communications being a half rate data channel.

63. (Original) A communication system as claimed in claim 62, wherein equal numbers of time slots in each frame are allocated to the data channel for circuit switched communications and the data channel for packet switched communications.

64. (Previously Presented) A communication system as claimed in claim 62, wherein half the number of slots are allocated to the data channel for packet switched communications and half are allocated to the data channel for circuit switched communications.

65. (Previously Presented) A communication system as claimed in claim 63, wherein a quarter of the number of slots are allocated to the data channel for packet switched communications and half are allocated to the data channel for circuit switched communications.

66. (Cancelled)

67. (Cancelled)

68. (Cancelled)

69. (Original) A communication system as claimed in claim 63, wherein control data for control of the data channel for packet switched communications is carried by the data channel for circuit switched communications.

70. (Original) A communication system as claimed in claim 63, wherein the control data is for control of transmission power and/or handover of the channel.

71. (Original) A communication system as claimed in claim 70, wherein the control data comprises a fast access channel and/or a slow access channel.

72. (Original) A communication system as claimed in claim 62, wherein the data channel for circuit switched communications is a conversation channel.

73. (Original) A communication system as claimed in claim 63, wherein the data channel for circuit switched communications is a background channel.

74. (Original) A communication system as claimed in claim 63, wherein the data channel for packet switched communications is allocated time slots during periods when the data channel for circuit switched communications is relative inactive.

75. (Currently Amended) A communication system as claimed in claim 75-63, wherein the data channel for packet switched communications is allocated time slots during lulls in speech data being carried by means of the data channel for circuit switched communication.

76. (Previously Presented) A communication system as claimed in claim 63, wherein the circuit switched channel is adapted to operate via a circuit switched core network of the communication system.

77. (Previously Presented) A communications system comprising a first station adapted to communicate with a second station over a wireless channel, data being carried over the wireless

channel in superframes, each superframe comprising a plurality of frames and each frame comprising a plurality of timeslots;

the system having:

a first mode of operation in which a full rate data channel for packet switched communications is defined by the allocation to that data channel of corresponding time slots in each frame;

a second mode of operation in which two half rate data channels for packet switched communications are defined by the allocation to each of those data channels of an equal number of corresponding time slots of frames in each superframe.

78. (Currently Amended) A communication system as claimed in claim 78-77, wherein each full or half rate data channel for packet switched communications is a streaming, interactive or background channel.

79. (Currently Amended) A communication system as claimed in claim 78-77, wherein each full, half or quarter rate data channel for circuit switched communications is a conversational channel.

80. (Currently Amended) A communication system as claimed in claim 78-77, wherein said system has a mode of operation in which said wireless channel comprises first and second sub-channels;

said first sub-channel comprising a half rate data channel for circuit switched communication; and

said second sub-channel comprising a half rate data channel for packet switched communication.

81. (Currently Amended) A communication system as claimed in claim 78-77, wherein said system has a mode of operation in which said wireless channel comprises first, second, third and fourth sub-channels each comprising a quarter rate data channel for circuit switched communication.

82. (Cancelled)

83. (Currently Amended) A communication system according to claim 78-77, wherein said system has a mode of operation in which said wireless channel comprises first, second and third sub-channels;

 said first sub-channel comprising a quarter rate data channel for circuit switched communication; and

 said second sub-channel comprising a quarter rate data channel for circuit switched communication; and

 said third sub-channel comprising a half rate data channel for packet switched communication.

84. (New) A mobile station capable of communicating data over a wireless channel, data being carried over the wireless channel in superframes, each superframe comprising a plurality of frames and each frame comprising a plurality of timeslots;

the mobile station having:

 a first mode of operation in which a full rate data channel for circuit switched communications is defined by the allocation to that data channel of corresponding time slots in each frame;

 a second mode of operation in which two half rate data channels for circuit switched communications are defined by the allocation to each of those data channels of an equal number of corresponding time slots of frames in each superframe;

 a third mode of operation in which four quarter rate data channels for circuit switched communications are defined by the allocation to each of those data channels of an equal number of corresponding time slots of frames in each superframe;

 a fourth mode of operation in which a full rate data channel for packet switched communication is defined by the allocation to that data channel of corresponding time slots in each frame; and

a fifth mode of operation in which two half rate data channels for packet switched communications are defined by the allocation to each of those data channels of an equal number of corresponding time slots of frames in each superframe.

85. (New) A mobile station as claimed in claim 84, wherein the mobile station is arranged to transmit data for packet switched communications during periods when the data channel for circuit switched communications is inactive.

86. (New) A mobile station as claimed in claim 85, wherein the mobile station is arranged to transmit data for packet switched communications during lulls in speech data being carried by means of the data channel for circuit switched communications.

87. (New) A mobile station as claimed in claim 84, wherein the mobile station is arranged to transmit data for circuit switched communication over a first sub-channel that comprises the half rate data channel for circuit switched communication and to transmit data for packet switched communication over a second sub-channel that comprises the half rate data channel for packet switched communication.

88. (New) A mobile station as claimed in claim 84, wherein the mobile station is arranged to transmit data for circuit switched communications over a wireless channel comprising first, second, third and fourth sub-channels each comprising a quarter rate data channel for circuit switched communication.

89. (New) A mobile station as claimed in claim 84, wherein the mobile station is arranged to transmit data over a wireless channel comprising first, second and third sub-channels:

 said first sub-channel comprising a quarter rate data channel for circuit switched communication;

 said second sub-channel comprising a quarter rate data channel for circuit switched communication; and

said third sub-channel comprising a half rate data channel for packet switched communication.

90. (New) A base station capable of communicating data over a wireless channel, data being carried over the wireless channel in superframes, each superframe comprising a plurality of frames and each frame comprising a plurality of timeslots;

the base station having:

a first mode of operation in which a full rate data channel for circuit switched communications is defined by the allocation to that data channel of corresponding time slots in each frame;

a second mode of operation in which two half rate data channels for circuit switched communications are defined by the allocation to each of those data channels of an equal number of corresponding time slots of frames in each superframe;

a third mode of operation in which four quarter rate data channels for circuit switched communications are defined by the allocation to each of those data channels of an equal number of corresponding time slots of frames in each superframe;

a fourth mode of operation in which a full rate data channel for packet switched communication is defined by the allocation to that data channel of corresponding time slots in each frame; and

a fifth mode of operation in which two half rate data channels for packet switched communications are defined by the allocation to each of those data channels of an equal number of corresponding time slots of frames in each superframe.

91. (New) A base station as claimed in claim 90, wherein the base station is arranged to transmit data for packet switched communications during periods when the data channel for circuit switched communications is inactive.

92. (New) A base station as claimed in claim 91, wherein the base station is arranged to transmit data for packet switched communications during lulls in speech data being carried by means of the data channel for circuit switched communications.

93. (New) A base station as claimed in claim 90, wherein the mobile station is arranged to transmit data for circuit switched communication over a first sub-channel that comprises the half rate data channel for circuit switched communication and to transmit data for packet switched communication over a second sub-channel that comprises the half rate data channel for packet switched communication.

94. (New) A base station as claimed in claim 90, wherein the base station is arranged to transmit data for circuit switched communications over a wireless channel comprising first, second, third and fourth sub-channels each comprising a quarter rate data channel for circuit switched communication.

95. (New) A base station as claimed in claim 90, wherein the base station is arranged to transmit data over a wireless channel comprising first, second and third sub-channels:

 said first sub-channel comprising a quarter rate data channel for circuit switched communication;

 said second sub-channel comprising a quarter rate data channel for circuit switched communication; and

 said third sub-channel comprising a half rate data channel for packet switched communication.

96. (New) A communication system as claimed in claim 62, wherein a half rate data channel is defined by the allocation to that channel of a time slot in alternate frames of the superframe.

97. (New) A mobile station capable of communicating data over a wireless channel, data being carried over the wireless channel in superframe, each superframe comprising a plurality of frames and each frame comprising a plurality of timeslots,

 the mobile station being arranged to transmit data for circuit switched communications over a data channel defined by the allocation to that channel of corresponding time slots of some

of the frames of each superframe, and to transmit data for packet switched communications over a data channel defined by the allocation to that channel of corresponding time slots of others of the frames of each superframe, wherein the data channel for circuit switched communications is a half rate data channel and the data channel for packet switched communications is a half rate data channel.

98. (New) A mobile station as claimed in claim 97, wherein the mobile station is arranged to transmit data for packet switched communications during periods when the data channel for circuit switched communications is inactive.

99. (New) A mobile station as claimed in claim 98, wherein the mobile station is arranged to transmit data for packet switched communications during lulls in speech data being carried by means of the data channel for circuit switched communications.

100. (New) A mobile station as claimed in claim 97, wherein the mobile station is arranged to transmit data for circuit switched communication over a first sub-channel that comprises the half rate data channel for circuit switched communication and to transmit data for packet switched communication over a second sub-channel that comprises the half rate data channel for packet switched communication.

101. (New) A base station capable of communicating data over a wireless channel, data being carried over the wireless channel in superframes, each superframe comprising a plurality of frames and each frame comprising a plurality of timeslots,

the base station being arranged to transmit data for circuit switched communications over a data channel defined by the allocation to that channel of corresponding time slots of some of the frames of each superframe, and to transmit data for packet switched communications over a data channel defined by the allocation to that channel of corresponding time slots of others of the frames of each superframe, wherein the data channel for circuit switched communications is a half rate data channel and the data channel for packet switched communications is a half rate data channel.

102 (New) A base station as claimed in claim 101, wherein the base station is arranged to transmit data for packet switched communications during periods when the data channel for circuit switched communications is inactive.

103. (New) A base station as claimed in claim 102, wherein the base station is arranged to transmit data for packet switched communications during lulls in speech data being carried by means of the data channel for circuit switched communications.

104. (New) A base station as claimed in claim 97, wherein the base station is arranged to transmit data for circuit switched communication over a first sub-channel that comprises the half rate data channel for circuit switched communication and to transmit data for packet switched communication over a second sub-channel that comprises the half rate data channel for packet switched communication.

105. (New) A mobile station capable of communicating data over a wireless channel, data being carried over the wireless channel in superframes, each superframe comprising a plurality of frames and each frame comprising a plurality of timeslots;

the mobile station having:

a first mode of operation in which a full rate data channel for packet switched communications is defined by the allocation to that data channel of corresponding time slots in each frame;

a second mode of operation in which two half rate data channels for packet switched communications are defined by the allocation to each of those data channels of an equal number of corresponding time slots of frames in each superframe.

106. (New) A mobile station as claimed in claim 105, wherein the mobile station is arranged to transmit data for packet switched communications during periods when the data channel for circuit switched communications is inactive.

107. (New) A mobile station as claimed in claim 106, wherein the mobile station is arranged to transmit data for packet switched communications during lulls in speech data being carried by means of the data channel for circuit switched communications.

108. (New) A base station capable of communicating data over a wireless channel, data being carried over the wireless channel in superframes, each superframe comprising a plurality of frames and each frame comprising a plurality of timeslots;

the base station having:

a first mode of operation in which a full rate data channel for packet switched communications is defined by the allocation to that data channel of corresponding time slots in each frame;

a second mode of operation in which two half rate data channels for packet switched communications are defined by the allocation to each of those data channels of an equal number of corresponding time slots of frames in each superframe.

109. (New) A base station as claimed in claim 108, wherein the base station is arranged to transmit data for packet switched communications during periods when the data channel for circuit switched communications is inactive.

110. (New) A base station as claimed in claim 109, wherein the base station is arranged to transmit data for packet switched communications during lulls in speech data being carried by means of the data channel for circuit switched communications.